***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW50/HW50: Geometric Probability

**Geometry**Due: Thursday, January 12th

**READ ALL DIRECTIONS! Failure to show** ALL WORK **and follow** all directions COMPLETELY **will result in LaSalle.**

|  |  |  |
| --- | --- | --- |
| 1. Describe HOW you find the distance of a diagonal segment in the coordinate plane and WHY you use that strategy. | | |
| **Directions: Plot the points for #2 and #3 on the same graph. Make sure you plot correctly and correctly label your points.** | | |
| 1. Point A is located at (-2, -3) and point B is located at (-2, 10). Find the length of the segment AB. | 1. Point A is located at (-2,-3) and point C is located at (2,0). Find the length of the segment AC. | 1. Point A is located at (-2,-3) and point D is located at (15, 30) find the length of the segment AD. |
| 1. COMPARE AND CONTRAST What is similar about #2-#4? What is different about the strategy you used in #2-#4? | | |

**FLIP 🡪**

***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW50/HW50: Geometric Probability

**Geometry**Due: Thursday, January 12th

**READ ALL DIRECTIONS! Failure to show** ALL WORK **and follow** all directions COMPLETELY **will result in LaSalle.**

|  |  |  |
| --- | --- | --- |
| 1. Describe HOW you find the distance of a diagonal segment in the coordinate plane and WHY you use that strategy. | | |
| **Directions: Plot the points for #2 and #3 on the same graph. Make sure you plot correctly and correctly label your points.** | | |
| 1. Point A is located at (-2, -3) and point B is located at (-2, 10). Find the length of the segment AB. | 1. Point A is located at (-2,-3) and point C is located at (2,0). Find the length of the segment AC. | 1. Point A is located at (-2,-3) and point D is located at (15, 30) find the length of the segment AD. |
| 1. COMPARE AND CONTRAST What is similar about #2-#4? What is different about the strategy you used in #2-#4? | | |

**FLIP 🡪**

|  |  |  |
| --- | --- | --- |
| 6**.** A dart board is placed on a graph. The board is formed by a square with coordinatesA(4,6), B(10,0), C(6,-4) and D(2,0). There are two circles on the dart board, one centered at O(6,0) with a radius of 1 and the other centered at O(6,0) with a radius of 2. Find the probability of the dart landing in each region of the dart board. | 7**.** A bean bag toss is created by a rectangle formed by points A(3,4), B(7,2), C(4,-4), and D(0,-2). The circle for the bean bag toss is centered at point E(4,1) and has a radius of 1. Find the probability of throwing the bean bag through the hole. | 8. Muchin’s very own geometry class designed a NEW design for a dart board formed by only squares. The largest square, ABCD is formed by A(0,4), B(4,1), C(7,5), and D(3,8). The next square EFGH is formed by E(1,4), F(4,2), G(6,5), and H(3,7). The next square IJKL is formed by I(2,4), J(4,3), K(5,5), and L(3,6). The bulls-eye is formed by square M(3,4), N(4,4), O(4,5), and P(3,5). Find the probability of landing a dart into each of the regions of the dart board. |

|  |  |  |
| --- | --- | --- |
| 6**.** A dart board is placed on a graph. The board is formed by a square with coordinatesA(4,6), B(10,0), C(6,-4) and D(2,0). There are two circles on the dart board, one centered at O(6,0) with a radius of 1 and the other centered at O(6,0) with a radius of 2. Find the probability of the dart landing in each region of the dart board. | 7**.** A bean bag toss is created by a rectangle formed by points A(3,4), B(7,2), C(4,-4), and D(0,-2). The circle for the bean bag toss is centered at point E(4,1) and has a radius of 1. Find the probability of throwing the bean bag through the hole. | 8. Muchin’s very own geometry class designed a NEW design for a dart board formed by only squares. The largest square, ABCD is formed by A(0,4), B(4,1), C(7,5), and D(3,8). The next square EFGH is formed by E(1,4), F(4,2), G(6,5), and H(3,7). The next square IJKL is formed by I(2,4), J(4,3), K(5,5), and L(3,6). The bulls-eye is formed by square M(3,4), N(4,4), O(4,5), and P(3,5). Find the probability of landing a dart into each of the regions of the dart board. |